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EOSDIS Core System Project

ECS COTS Deployment Plan Volume 1

May 1999

Raytheon Systems Company
Upper Marlboro, Maryland

ECS COTS Deployment Plan Volume 1

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Preface

This document is a formal contract deliverable with an approval code 1. It requires Government review and approval prior to acceptance and use. This document is under ECS contractor configuration control. Once this document is approved, Contractor approved changes are handled in accordance with Class I and Class II change control requirements described in the EOS Configuration Management Plan, and changes to this document shall be made by document change notice (DCN) or by complete revision.

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Abstract

This is the first Volume of a document that will provide information and details associated with the upgrading of COTS products within the Earth Observing System Data and Information System (EOSDIS) Core System (ECS). The information included in this document provides the products being upgraded, reporting format for weekly status, and program plan and schedule information, rationale/requirements for the upgrades as well as reviews and risk mitigation activities used throughout the upgrade process.

Keywords: product, schedule, status, test, COTS

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1. Introduction

1.1 Identification

This document is the ECS COTS Deployment Plan for COTS products being upgraded for the period defined for Volume 1 of this document (April – October 1999), for the ECS project which is defined by Data Item Descriptions (DIDs) 335/DV1.

1.2 Scope

The “ECS COTS Deployment Plan, Volume 1” documents the ECS approach to upgrading the various COTS packages described in Section 3.2. This includes upgrades that occur during the period April 1, 1999, through October 15, 1999. This document will be updated with subsequent volumes that will provide coverage on COTS upgrades in subsequent volumes. Each volume will cover a six to nine month period of time. Volume 2 will cover COTS upgrades from the period November 1999 thru June 2000.

1.3 Purpose

The purpose of this plan is to provide the approach for the upgrading of the COTS products identified for Volume 1. This plan describes the process for developing, integrating, testing, and shipping all Volume 1 products including reviewing, monitoring, and providing status.

1.4 Status and Schedule

The DID 335 is a new deliverable under ECS’s Contract Restructure. Volume #1 of this document will be formally delivered in May 1999. The products identified in this document were selected for delivery during the April through October 1999 time frame. Status on all the products will be reported on a weekly basis, and the schedule is updated and reported weekly in Primavera.

It is essential to understand that as ECS progresses through the upgrade period, some elements of this document may change, e.g. additional products may be identified for upgrade during the period specified herein for Volume #1. Changes will only be reflected in the weekly status report.

1.5 Organization

Section 1 provides information regarding the identification, scope, purpose, and objectives, and organization of this document.

Section 2 provides a listing of the related documents which were used as a source of information for this document.

Section 3 provides the details concerning the requirements driving the COTS upgrades, the software and hardware products involved with Volume 1, as well as, the process followed to upgrade the products. The risk mitigation procedures employed by ECS are described.

The appendices describe the test and validation process and philosophy through system test, the Primavera schedule used to manage and oversee progress and the hardware products and rationale be upgraded, The last appendix provides a snap shot of the status tool to monitor and report progress.

2. Documentation

2.1 Parent Documents

Parent documents are documents from which the Science System Release Plan's scope and content are derived.

334-CD-001 5B Science System Release Plan for ECS

423-41-01 ECS Statement of Work

423-41-02 Functional and Performance Requirement Specification for the Earth Observing System Data and Information System(EOSDIS) Core System, Revision B

2.2 Applicable Documents

The following documents are referenced within this COTS Deployment Plan for Volume 1 Upgrades or are directly applicable, or contain policies or other directive matters that are binding upon the content of this volume.

CM-1-005 ECS Project Instruction for Turnover and Installation of COTS, OT, Library Software and Configuration Files

No Number ECS COTS Compatibility Table

SD-1-024 COTS Upgrade PI

2.3 Information Documents

2.3.1 Information Documents Referenced

The following documents are referenced herein and, amplify or clarify the information presented in this document. These documents are not binding on the content of this volume.

2.3.2 Information Documents Not Referenced

The following documents, although not referenced herein and/or not directly applicable, do amplify or clarify the information presented in this document. These documents are not binding on the content of this volume.

101-CD-001 Project Management Plan for the ECS Project

409-CD-100 ECS Overall Acceptance Test Plan for Drop 5B

162-TP-001 Y2K SDPS Test Plan for ECS

212-TP-002 Y2K Plan for ECS

910-TDA-003	COTS Software Version Baseline Report, 4PX
910-TDA-503	COTS Software Version Baseline Report, 4PY
920-TDX-002	Hardware/Software Map, where X= E for EDC, N for NSIDC, G for GSFC, L for LaRC, S for SMC, and V for VATC

3. Details

3.1 Requirement

The ECS SOW provides the requirement to perform COTS upgrades in paragraph 3.8.3.5, which states,

“The ECS Contractor’s M&O organization shall support and participate in planning and implementation of upgrades to the ECS. These upgrades may be the result of:

- a. Installation of planned system capacity growth for increases in computational power, data storage capacity, communications capacity, etc.
- b. Installation of system capacity expansion required due to growth of system capacity requirements beyond original performance estimates
- c. New releases of COTS

System upgrades shall have minimal impact on applications and tools. Upgrades will be done as approved by the CO/COTR.

The Contractor shall provide planning for upgrades and shall support the CO/COTR’s review of the need for the upgrade and the plans for implementation of the upgrade. The Contractor shall procure the hardware and software called for in the planned upgrade and shall perform or support the installation and testing of the upgrade. The Contractor shall update documentation affected by the upgrade, including but not limited to:

- a. Facility plans and floor plans
- b. Operations plans and procedures
- c. System documentation and users guides
- d. Training materials

Upgrades shall be coordinated with the affected operational sites to ensure proper facility planning and preparation including floor space, power, and air conditioning. Upgrades shall follow applicable configuration management procedures, integration and test procedures, and formal acceptance testing procedures. The Logistics Support Analysis Plan shall be updated.”

The specific reasons for the group of product upgrades for Volume 1 are detailed below. Each product has specific rationale for the upgrade. If the upgrade also relates to an NCR, the NCR number will be listed in the rationale column also.

- Termination of vendor maintenance support for the current version in use.
- To meet project, customer, and company Y2K requirements.

- Code/product improvement upgrades to correct error conditions and unsatisfactory performance.
- Upgrades required due to upgrades to other products.
- Maintenance efficiency (consistent versioning on all platforms).

The technical information regarding each product, vendor, current versions, inter-actions with other products, platform dependencies is maintained in the ECS COTS Compatibility Table. This table is maintained by ECS for the purpose of cross checking dependencies, capabilities, and determining vendor support dates, etc. This table is critical to the COTS Upgrade process.

3.2 COTS Products Upgrades

3.2.1 The Software COTS products allocated to Volume 1

The SW COTS products included in Volume 1 are listed in the COTS Status Table. This table is included in Appendix F, COTS Upgrades - Volume 1.

3.2.2 The Hardware Cots Products allocated to Volume 1

For 1999, there are two main hardware purchases planned. The first purchase is a capacity upgrade of Disk for each Science Data Server Suite for each DAAC. This disk upgrade is for supporting capacity required for electronic distribution. The second purchase is for at least one Origin and attached RAID for supporting activities like the IRIX 6.5 OS upgrade process and building custom code to run on IRIX 6.5 and Origin machines. See Appendix E for additional details.

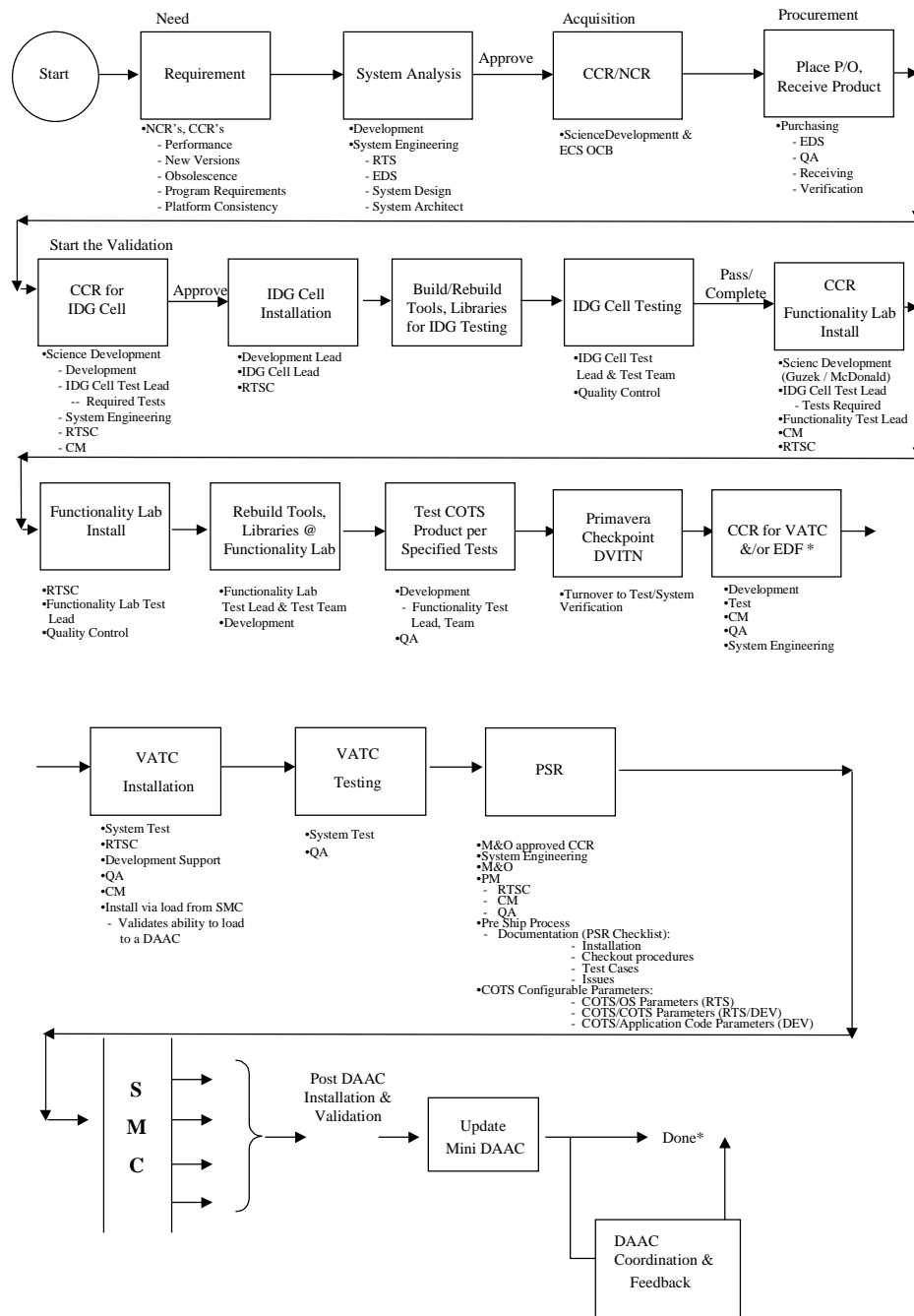
3.3 Process

This section provides the details of the activities necessary to perform all the upgrades, verify and revalidate the system operations and performance. This section provides a detailed description of the COTS Upgrade Project Instruction (PI) SD-1-024.

The procedures covering the life cycle of upgrading a COTS product are depicted in the ECS COTS Upgrade Process figure, Figure 3.2-1. The process includes the requirements process that will initiate an upgrade activity, the reviews and sign off review boards utilized along the way as checkpoints/milestones to insure accuracy, adequate verification, and coordination with all ECS segments, customer activities, and DAACs that will be the recipient of the upgrades.

The CCR process is the key activity providing the reviews/system checks to insure performance and system validation standards are met. These begin with the procurement of the upgrade, the introduction of the upgrade into Developments domain for installation, analysis, and test within the IDG Cell and the Functionality Lab. Upon satisfaction through Development, the product is ready for transition to System Test within the VATC. System Test selects the appropriate tests from the System VDB, and RTSC is responsible to perform the installation. Satisfactory completion of the VATC activities results in the product being prepared for a Pre-Ship Review

(PSR). The PSR verifies all testing and performance milestones have been met, installation instructions prepared and checked out before the product is released for delivery to the customer. The PSR also contains the installation instructions and documentation updates. A PSR walkthrough is conducted by M&O with the DAACs and ECS key personnel prior to certifying the PSR and authorizing delivery of the COTS product. A release CCR is generated to accomplish this release. ECS PI CM-1-005 describes the turnover and installation of COTS procedures.



* When all DAACs have been upgraded, then the ECS Build Environment is upgraded.

Figure 3.3-1. COTS Life Cycle Process

3.4 Deployments and Upgrades Required:

Upgrades are listed in the COTS Upgrade Status Sheet that is updated weekly and briefed to management and the customer. This chart details progress of each product towards turnover and installation at the SMC. Deployment to the DAACS is performed from the SMC electronically. The chart is provided in Appendix F.

3.5 Risk Mitigation Plans and Activities

Achieving balanced technical/cost/schedule performance, the ECS project pivots on three critical processes: risk management, cost/schedule management, and metrics driven management. This section describes the project's approaches to these critical management processes.

3.5.1 ECS Risk Management

Risk Management for the COTS upgrades is controlled, monitored, and resolved by thoroughly tracking progress for the entire upgrade cycle and thorough testing and analysis at the unit level, the subsystem level, and the system level.

3.5.2 Cost/Schedule Management

Tracking and monitoring is accomplished with each COTS products plan in the Primavera Scheduling plan, and weekly COTS meetings attended by EDS, Development, System Engineering, Configuration Management, Systems Tests, O&M, and the DAACs. This status is documented on the COTS status report (Appendix F) and reported to management and the customer (ESDIS) on a weekly basis.

3.5.3 Metrics Driven Management Approach

Metrics are used as a management tool to assess progress, adjust resources, and aid in the delivery of ECS/SDPS. Planned versus actual metrics aid in determining progress towards the planned goals. This type of metric is used by all subsystems and disciplines. Other types of metrics include the rate of discovery of problems or issues. These rate metrics provide trends that predict system stability and help identify additional potential resource needs. The Program Manager will maintain a sustained emphasis to continually improve the data collection, analysis and presentation of the relevant metrics of the project.

Selected metrics presentation charts and their updates will be presented at the Daily Status Reviews, and posted for use and reference by interested individuals, and formally provided in the weekly update to the monthly program report.

Metrics delivered each week include:

- A) COTS Integration Plan vs. Actual
- B) COTS weekly status report (Appendix F)
- C) COTS primavera schedule

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Appendix A. Tests/Validation Philosophy for the IDG Cell

The IDG Cell is controlled and operated by the Infrastructure Development Group (IDG) of the Development Department. The products listed in appendix F of this document are the COTS products being updated during the time frame specified in this document. The purpose and the objectives of testing the COTS product in the IDG cell are to perform the first level of validation for the upgrade. To do this, the IDG Cell will perform unit level type testing on each of these products. These tests will utilize test drivers, and test data as appropriate. The testing may test to a single subsystem level. The objectives of IDG Cell level testing is to demonstrate the products specific interfaces. This testing is characterized as ‘Pre-Integration Testing’.

Detailed test plans and procedures will be developed by the assigned Responsible Engineer (RE) subsequent to the COTS Product Upgrade kickoff meeting. These test plans and procedures will be validated and approved and form the basis for approval to move to the next level of testing and validation. Eventually, the test plans and procedures are enhanced by the RE to become the testing criteria for the verification/validation during installation at the appropriate customer facilities.

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Appendix B. Tests/Validation Philosophy for the Functionality Lab

The Functionality Lab is controlled and operated by the Construction group of the System Development Department.

The Functionality Lab will perform Regression Tests on each of the products listed above. These tests will be configuration specific, interact with executables, and have specific scenarios or test cases run against them. This level of testing will verify the performance of the product at the subsystem level. The test plans are updated and validated by the RE. Upon completion, a CCR is prepared to hand the product off for system testing.

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Appendix C. VATC Testing/Validation Philosophy

VATC Mission

To provide a realistic test platform where the ECS functionalities required by any DAAC can be exercised or formally tested in isolation or within the context of any DAACs software in a realistic hardware and software environment, and where extended physical access to the VATC system is available to provide for concurrent testing in a multiplicity of modes.

COTS/ Testing/Validation Philosophy for the SVAT

This section provides the details associated with the test philosophy for all COTS products installed in the formal testing labs, which are operated and controlled by the SVAT.

SVAT is responsible for the following:

1. Testing and validating new or upgraded COTS products installed in the VATC.
2. Review the new/upgrade product lists and determine which items are vital to the core ECS System.
3. Identify and run specific SVAT tests that verify product function as required by ECS System in the VATC DAAC environment with ECS test data.
4. Write/update detailed procedures, as required for products not covered by existing test procedures.
5. Document the test results with test execution reports and NCRs.
6. Validate and approve new procedures with the Architects Office.
7. Develop testing schedules and plans for the overall program plan.
8. Provide test plans for PSR and as appropriate for customer facility installation and for NCR fix validation.

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Appendix D. Schedule for Volume 1 COTS Upgrades

Microsoft Project/Primavera Schedule with all the activities and milestones for the COTS products assigned to this volume. Below is a snap shot of the Primavera P3 schedule for the COTS products that are currently in the upgrade process.

Activity ID	RESP	Drop	Orig Dur	Early Start	Early Finish	1999												2000																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
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Sheet 2 of 3

Activity ID	RESP	Drop	Orig Dur	Early Start	Early Finish	1999												2000						
						MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY				
SECOT5B090		5B	1	25MAY99	25MAY99				☒	SQS 3.2.2.x COTS Upgrade PS														
Sybase Adaptive Server 11.5.1																								
DSMGT5B460		6A	1	18OCT99	18OCT99												☒	Sybase Adaptive Server 11.5.1 Upgr E						
DVMGT5B035	MSA	6A	0		11JAN00																			
DSMGT5B150		6A	2	12JAN00	13JAN00																			
SVCOTS0220		6A	5	14JAN00	20JAN00																			
SECOT5B110		6A	1	28JAN00	28JAN00																			
Sybase Open Client 11.1.1																								
DSMGT5B470		5B	1	07JUN99	07JUN99																			
DVMGT5B045	MSA	5B	0		10AUG99																			
DSMGT5B430		5B	2	11AUG99	12AUG99																			
SVCOTS0250		5B	4	13AUG99	18AUG99																			
SECOT5B130		5B	1	26AUG99	26AUG99																			
Tivoli																								
DSMGT5B480		5B	3	10MAY99	12MAY99																			
DVMGT5B020	MSA	5B	0		19MAY99																			
DSMGT5B110		5B	2	20MAY99	21MAY99																			
SVCOTS0110		5B	2	24MAY99	25MAY99																			
SECOT5B070		5B	1	03JUN99	03JUN99																			
DVITN5B060	MSA	5B	10	16JUL99	29JUL99																			

Sheet 3 of 3

Appendix E. Hardware Procurements and Rationale

1) FTP USER PULL DISK UPGRADES FOR 1999

Upgrades to the disk space on the Access Control & Management Hardware Subsystems (ACMHW) at the DAACs with regard supporting electronic distribution of data was determined using Table C-2, User Distribution Rates via Network and via Physical Media, of the F&PRS. The table shows the GB/day distribution rate via the network for each topic for each DAAC. For purposes of disk space requirements, the numbers in this table were multiplied by two, so that each DAAC would have the equivalent of two days worth of disk storage available for housing User Pull data.

The calculations were derived by purchasing GB of disk space as needed, per year Topic, and accumulating the GB's as they are purchased and rolling them into the calculations for the following year. As part of the rolling calculations, current GB's on the floor for User Pull are taken into account. A starting assumption is that 9GB disk will be the form factor for calculating the number of disks needed. Because these disks will be part of RAID units, an overhead of one RAID disk in five is used to support RAID parity information. Also, as GB's of space are calculated, disk controllers and racks are also required to be purchased as necessary.

The following disk purchases will be done in 1999 to support FTP User Pull requirements for electronic distribution for the year.

GSFC	21 disks
LaRC	2 disks
EDC	9 disks

2) VATC ORIGIN UPGRADES FOR 1999

The purchase of at least one Origin and attached RAID to support VATC activities such as testing the Science Data Server upgrades (Required later) for the DAACs (Justification flows), and the support of the transition and testing of IRIX 6.5.3 on Origin platforms is expected in 1999.

Justification for the SDSRV Upgrades

For the ACMHW and ICLHW suites at GSFC and EDC DAACs, upgrades were derived based on ECS calculations of processing requirements and data volumes for the ECS system, during AM-1, but especially when PM-1 processing begins. By the time of PM-1 launch, the design forecasts the splitting of the processing load in the ACMHW subsystem by mission. In other words, the current SGI/SUN pair remains allocated to AM-1 data processing, and a procurement of new SGI/SUN pair (with attached RAID)

would be used for processing PM-1 data. The remaining pair of SGI/SUN machines acts as a failover for either the AM-1 processors or the PM-1 processors.

Currently, the ACMHW consists of a pair of Servers, on SGI (Challenge class) and on SUN, that provide, respectively, Application Process Coordination (APC) on the SGI (as well as running Spatial Query Server, and Sybase Databases) and Science Data Server (SDSRV) services on the SUN. Another pair of SGI/SUN Servers in the ACMHW hardware suite provides for failover capability.

The purchase of a PM-1 SGI/SUN pair SDSRV servers will mean that the SGI will be an Origin class server. This creates an issue, in that, in order to provide failover on the SGI's the primary and it's failover server should be identically configured. Therefore, the purchase of an SGI Origin PM-1 processing would imply that Failover server be Origin as well. If this is the case, then the implication is that the current AM-1 SGI Challenge server would need to also be replaced with an Origin as well, so that failover can occur seamlessly either from the AM-1 or PM-1 SGI Origins. An Origin purchase for AM-1 would also satisfy any current or future processing requirement for the AM-1 data.

This implies the purchase, for both EDC and GSFC of three SGI Origins (two primary and on failover) in the SDSRV (ACM) suite. The additional SUN server purchased at each site would be a SUN Enterprise class machine (to complete the PM-1 SGI/SUN pair). Any SGI Challenge servers replaced at either GSFC or EDC as a result of the Origin purchase can be redeployed for other purposes.

Appendix F. COTS Status Table

The COTS status table is presented to management and the customer on a weekly basis. The information captured in each of the columns for each product is described below:

1. Product Name: Name of the COTS product being upgraded.
2. Baseline Version: Version of the product currently on the system and baselined by CM.
3. End of Support: Time that the vendor will no longer provide support for this version of the product.
4. New Version: Version of the COTS product to which ECS is upgrading.
5. End of Support: Time that the vendor will no longer provide support for this version of the product.
6. Pre-Integration Test RE: Responsible Engineer assigned to test the product in the IDG.
7. Integration Test RE: Responsible Engineer assigned to test the product in the Functionality Lab.
8. Test RE: Responsible Engineer assigned to test the product in the VATC.
9. Other Tests: Tests for special case products that aren't tested in the normal cycle.
10. Upgrade Rationale: The rationale/reasons for upgrading this product.
11. Need Date: Date the product has to be tested, verified, and deployed to the customer for installation.
12. Plan Date: Date from the product plan that the product will complete testing and PSR for turnover to the customer.
13. Subsystem Impacted: The primary subsystem that uses this product, and is also assigned as the 'owner' of the product.
14. COTS Dependencies: Other products that interface with this product and may be impacted by the change in version, etc.
15. Custom Code Usage: Custom code subsystems that interface with this product that will have to have each interface re-verified with the upgraded version of the product during testing.
16. Custom Code Dependencies: Custom Code Products that are impacted by this upgrade that will have to have coding changes or modifications.
17. Status: Current status of activities and progress towards the product upgrade plan in P3.

COTS Weekly Status Sheet

Product Name	Baseline Version	End of Support	New Version	End of support	Pre-Integration Test RE (IDG)	Integration Test RE (Fnc Lab)	Test RE (VATC)	Other Tests	Upgrade Rationale	Need Date	Plan Date	Subsystem Impacted	Custom Code Usage	Custom Code Dependencies	Status
Netscape Enterprise Server	2.02a		3.6		K. Bryant	K. Bryant	S. Chaudhari		Y2K	Jun-99	30-Apr	CLS	CLS,MSS, IOS, and IDG	None	Functionality Lab testing complete. CCR to move to VATC is 3/31. VATC install delayed due to Y2K testing
Netscape Communicator	3.01	until 10/16/99	4.5		K. Bryant	K. Bryant	S. Chaudhari		Correct Problems in the current package		30-Apr	CLS, MSS, IOS	IDG	None	Testing completed on the Sun version, but needs verified on the SGI and HP, and Installation instructions expanded to include all platforms. CCR to include SGI and HP installation/VATC to be complete 4/7
SQS	2.2.2.29A	Version 2 supported until 7/31/99. May be supported beyond this date for additional fee.	3.2.2	Version 2 support under negotiation	J. Cockey	J. Cockey	J. Rattigan		Vendor Support	Jun-99	26-May	SDSRV	SDSRV	DB Upgrade Script needed for 2.x to 3.x	Change in requirement. 3.2.2 is next upgrade replacing 2.2.2.30. Move to 5A timeframe. Have to verify in 4pY and 5A. Product installed in Functionality Lab.
Volume Manager	2.4 (some sites at 2.3 & 2.5)	Supported as long as the operating system on which it is running is supported	2.6		Layne Behrens	Layne Behrens	RTSC		Y2K & version consistency	Jun-99		HW & Sun-platform specific	None	None	VATC install is delayed due to Y2K testing
Disk Suite	4	three levels back, will be supported until next version release	4.1	three levels back, will be supported until next two releases	Layne Behrens	Layne Behrens	RTSC		Y2K	Jun-99	Testing is complete. Will be PSR'd with Volume Mgr	HW & Sun-platform specific	None	None	PSR for this product will be conducted at the same time as PSR for Volume Mgr, because the products are complimentary. i.e., a platform will have one or the other.
XRP II	3.1		3.1.1		A. Schuster	A. Schuster			M&O request to add functionality	Jun-99	Jun-99	MSS	OS/Accell-Unify	None	To be installed in the functionality Lab on 4/13
Java Runtime Environment (JRE)	1.1.5		1.1.7B	Freeware: Limited support/ may be restricted to most current version	K. Bryant	K. Bryant	Test in Mini DAAC, S. Chaudhari		Functionality required for JAVA DAR Tool	ASAP to EDC	Mid Apr	CLS	Needed by the JDT	Needed by JDT	Install in the Mini DAAC. Tests conducted in the mini DAAC because of the environment required

COTS Weekly Status Sheet

Product Name	Baseline Version	End of Support	New Version	End of support	Pre-Integr Test RE (IDG)	Integration Test RE (Fnc Lab)	Test RE (VATC)	Other Tests	Upgrade Rationale	Need Date	Plan Date	Subsystem Impacted	Custom Code Usage	Custom Code Dependencies	Status
Tivoli	3.0/3.1	Will be announced when version 4.0 is released (end of the year)	3.6		L. Swentek	L. Swentek	V. Khatri		Vendor Support		24-May	MSS		None	Completed the IDG installation, however license issue is unresolved
Builder Xcessory BX/Graphpak	3/2.5	3.0-June 1995	5.0/3.0	one year after next release	L. Swentek, Brian Jew	L. Swentek, Brian Jew	V. Khatri		Vendor Support, and Y2K	Nov-99		MSS	Most Subsystems	Runtime Libraries linked by ECS code	Test and evaluation planned to start in mid April
Sybase Open Client (Sun)	10.0.1/11.1.0	10.0.1 was end-of life June 1998/11.1 line of code permanently superceded by 11.1.1	11.1.1		Royal White	Royal White	TBD		Vendor Support & Version consistency across all platforms - brings all platforms to same version level			DDM	Most Subsystems	Runtime Libraries linked by ECS code. May need config parameter changes	Currently being planned. Issues with deltas between HP, Sun, and SGI versions being assessed by R. White and M. Magunda. Kickoff meeting conducted 3/29.
DBXcessory	Not B/L for DAACs - Not B/L		1.5	one year after next release	Royal White	Royal White	V. Khatri		Directed to be provided by ESDIS ERB		14-Apr	DDM		None	Product is in the VATC
Intelligent Query (IQ)	Not B/L for DAACs		5.5	none	Royal White	Royal White	TBD		Support for DAAC DB reporting requirements - Providing most current version			DDM	None	None	Currently being planned
SQR	3 - Not B/L for DAACs	New Vendor/Support under negotiation	?	New Vendor	Royal White	Royal White	TBD		Availability/Support being negotiated			DDM	None	None	Study underway
IMSL	2.5 Fortran Libraries/2.0 C Libraries		3.0.1	product manager to determine end-of-support, will send out a letter of notification	D. Arrington	D. Arrington	T. Wells		Y2K	Nov-99		Toolkit	Toolkit	None, (Used only by PGEs)	Required for Toolkit. Issues to be resolved by Science and procurement.
Softwindows 95	New - Not B/L		4.0-P	No future product in development, no end of support in sight	Mike Mauthe	Mike Mauthe	A. Whiteleather		supports needed document handling capabilities			PDPS	None	None	Planning phase has not started. Requirement evaluation is underway
HP Open View	4.1		6		L. Swentek	L. Swentek	V. Khatri		Vendor Support	Aug-99	Jul-99	MSS	MSS	None	Planning is in process, activity to start mid April
Microsoft Office	W in 95	no end of support expected for a long while, six month notice of end-of-support will appear on web site	W in 97		Mike Mauthe	Mike Mauthe	A. Whiteleather		provides needed document handling capabilities			PDPS	None	None	Planning phase has not started

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